

# Recombinant Full Length Human ATP1A3 Protein, GST-tagged

**Cat. No.** ATP1A3-1088HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human ATP1A3 full-length ORF ( NP_689509.1, 1 a.a. - 1013 a.a.) recombinant protein with GST-tag at N-terminal.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | In Vitro Cell Free System  |
| <b>ProteinLength</b>    | 1013 amino acids   |
| <b>Description</b>      | <p>The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]</p> |
| <b>Molecular Mass</b>   | 138.1 kDa  |
| <b>AA Sequence</b>      | MGDKKDDKDS PKNKKGKERR DLDDLKKEVA MTEHKMSVEE VCRKYNTDCV QGLTHSKAQE ILARDGPNAL TPPPTTPEWV KFCRQLFGGF SILLWIGAIL  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CFLAYGIQAG TEDDPGSDNL YLGIVLAAVV IITGCFSYYQ EAKSSKIMES  
 FKNMVPQQAL VIREGEKMVQ NAEVVVVDL VEIKGGDRVP ADLRIISAHG  
 CKVDNSSLTG ESEPQTRSPD CTHDNPLETR NITFFSTNCV EGTARGVVVA  
 TGDRTVMGRI ATLASGLEVG KPIAIEIEH FIQLITGVAV FLGVSFFILS  
 LILGYTWLEA VIFLIGIIVA NVPEGLLATV TVCLTLTAKR MARKNCLVKN  
 LEAVETLGST STICSDKTGT LTQNRMTVAH MWFDNQIHEA DTTEDQSGTS  
 FDKSSHTWVA LSHIAGLCNR AVFKGGQDNI PVLKRDVAGD ASESALLKCI  
 ELSSGSVKLM RERNKKVAEI PFNSTNKYQL SIHETEDPND NRYLLVMKGA  
 PERILDRCSST ILLQGKEQPL DEEMKEAFQN AYLELGGLGE RVLGFCHYYL  
 PEEQFPKGFA FDCDDVNFTT DNLCFVGLMS MIDPPRAAVP DAVGKCRSAG  
 IKVIMVTGDH PITAKAIAKG VGIISEGNET VEDIAARLNI PVSQVNPRDA  
 KACVIHGTDL KDFTSEQIDE ILQNHTEIVF ARTSPQQKLI IVEGCQRQGA  
 IVAVTGDGVN DSPALKKADI GVAMGIAGSD VSKQAADMIL LDDNFASIVT  
 GVEEGRILFD NLKKSIAAYTL TSNIFEITPF LLFIMANIPL PLGTITILCI DLGTDMPVAI  
 SLAYEAAESD IMKRQPRNPR TDKLVNERLI SMAYGQIGMI QALGGFFSYF  
 VILAENGLFP GNLVGIRLNW DDRTVNDLED SYGQQWTYEQ RKVVEFTCHT  
 AFFVSIVVVQ WADLIICKTR RNSVFQQGMK NKILIFGLFE ETALAAFLSY  
 CPGMDVALRM YPLKPSWWFC AFPYSFLIFV YDEIRKLILR RNPGGWVEKE TYY

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

ATP1A3 ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 3 polypeptide [ Homo sapiens ]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                        |  |
|------------------------|--|
| <b>Official Symbol</b> | <a href="#">ATP1A3</a>   |
| <b>Synonyms</b>        | ATP1A3; ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 3 polypeptide; dystonia 12 , DYT12; sodium/potassium-transporting ATPase subunit alpha-3; Na <sup>+</sup> /K <sup>+</sup> ATPase 3; sodium pump subunit alpha-3; Na(+)/K(+) ATPase alpha-3 subunit; Na(+)/K(+) ATPase alpha(III) subunit; sodium-potassium-ATPase, alpha 3 polypeptide; sodium/potassium-transporting ATPase alpha-3 chain; RDP; DYT12; MGC13276 |
| <b>Gene ID</b>         | <a href="#">478</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_001256213</a>   |
| <b>Protein Refseq</b>  | <a href="#">NP_001243142</a>   |
| <b>MIM</b>             | <a href="#">182350</a>   |
| <b>UniProt ID</b>      | <a href="#">P13637</a>   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA